Control #: D4-100N-0065 A

FACILITY STATUS CHANGE FORM

	T				
Date Submitted:	Area:	Control #:			
9-8-2014	100-N	D4-100N-0065/			
Originator:	Facility ID:	33.9			
Dan Saueressig	100-N AOC Area 9				
Phone:	Action Memorandum:	1			
509-521-5326	100-N Ancillary Facilities				
This form documents agreement amo	ong the parties listed below on the sta oil in accordance with the applicable	tus of the facility D&D operations and			
the disposition of underlying s	on in accordance with the applicable	regulatory decision documents.			
Section 1: Facility Status					
⊠ All D4 operations required by a □ □	ction memo complete.	, × ×			
	on memo partially complete, remaining o	perations deferred			
	paramy complete, remaining of	portune delettod.			
Description of Completed Activities a					
AOC Area 9 functioned primarily as road	dways and asphalted access areas to va	rious support buildings north of the 105-			
N Reactor. Many Building footprints and	d waste sites were located within Area 9	which have their own closure			
documents [Facility Status Change Form Closure Verification Packages (CVPs) for	is for anciliary facilities and Remaining S	sites Verification Packages (RSVPs) or			
however backfill concurrence forms have	heen approved allowing backfill of the	nave approved RSVPs/CVPs in place,			
finalized. AOC Area 9 has been backfille	ed in preparation for revenetation. Also	waste site 100-N-106 Shallow			
Petroleum-Only Releases, in AOC Area	9 will be addressed in the final ROD for	the 100-N Area and 100-N-85 potential			
deep zone contamination associated with	h the 1716-N Gas Station Fuel Tanks, w	ill be characterized in FY15 and			
addressed in the final ROD for 100-N if of	contamination above Remedial Action Go	pals is discovered.			
Description of Deferral (as applicable)):				
N/A					
Section 2: Underlying Soil Status					
No waste site(s) present. No ac	dditional actions anticipated				
		sed under Record of Decision			
Potential waste site discovered during D4 operations. Waste site identification number <to be=""> assigned.</to>					
Cleanup and closeout to be add	ressed under Record of Decision.				
Description of Current/As-Left Conditi	ions:				
AOC Area 9 functioned primarily as road	ways and asphalted access areas to var	ious support buildings north of the 105-			
N Reactor. Many Building footprints and	waste sites were located within Area 9 v	which have their own closure			
documents [Facility Status Change Form	s for ancillary facilities and Remaining S	ites Verification Packages (RSVPs) or			
Closure Verification Packages (CVPs) fo	r waste sites]. Some waste sites do not	have approved RSVPs/CVPs in place.			
however backfill concurrence forms have	been approved allowing backfill of the s	ites while the RSVPs/CVPs are			
finalized. AOC Area 9 has been backfille	ed in preparation for revegetation. Also,	waste site 100-N-106, Shallow			
Petroleum-Only Releases, in AOC Area 9	the 1716-N Gas Station Fuel Tanks with	ne 100-N Area and 100-N-85, potential			
deep zone contamination associated with the 1716-N Gas Station Fuel Tanks, will be characterized in FY15 and addressed in the final ROD for 100-N if contamination above Remedial Action Goals is discovered.					
Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):					
N/A					
Section 3: List of Attachments Sample Determination Form (SDF-100N-					

Control #: D4-100N-0065

FACILITY STATUS CHANGE FORM		
DOE-RL Mand	9/19/14 Date 9/18/14	
Lead Regulator	Date	

DISTRIBUTION:

EPA: Dennis Faulk, B1-46 Ecology: Wanda Elliott, H0-57 DOE: Rudy Guercia, A3-04

Document Control, H4-11 H0-30 Administrative Record, H6-08 100-NR-1 SIS Coordinator: Benjamin Cowen, H4-22

D4 EPL: Chris Strand, L4-45

Sample Design/Cleanup Verification: Theresa Howell, H4-23

FR Engineering: Rich Carlson, H4-22 FR EPL: Dan Saueressig, X8-02

Determination Number SDF-100N-040

A. INSTRUCTIONS

This form must be completed to: 1) document existing data in order to determine if current data is suitable to prove completion of 100-N Ancillary Facilities, or 2) document that site-specific sampling and analyses are needed to provide completion for 100-N Ancillary Facilities.

B. GENERAL INFORMATION

Building Name: 100-N AOC Area 9

Building Number: N/A

WIDS Sites Associated or Adjacent:

Historical information reviewed indicates AOC Area 9 functioned primarily as roadways and asphalted access areas to various support buildings north of the 105-N Reactor. Many Building footprints and waste sites were located within Area 9 which have their own closure documents [Facility Status Change Forms for ancillary facilities and Remaining Sites Verification Packages (RSVPs) or Closure Verification Packages (CVPs) for waste sites]. Some waste sites do not have approved RSVPs/CVPs in place, however backfill concurrence forms have been approved allowing backfill of the sites while the RSVPs/CVPs are finalized. Also, waste site 100-N-106, Shallow Petroleum-Only Releases, in AOC Area 9 will be addressed in the final ROD for the 100-N Area and 100-N-85, potential deep zone contamination associated with the 1716-N Gas Station Fuel Tanks, will be characterized in FY15 and addressed in the final ROD for 100-N if contamination above Remedial Action Goals is discovered.

100-N-26, French Drain 2 Liquid Waste Site (100N TBR 4.87), Interim Closed Out, RSVP-2012-056, WSRF No. 2012-056. Transmittal Letter dated October 3, 2012 (CCN 167980).

100-N-59, Radioactively Contaminated Soil Northeast of 105-NB Building, Interim Closed Out, RSVP-2012-080, WSRF No. 2012-080, Transmittal Letter dated January 14, 2013 (CCN 169258).

100-N-63:2, Pipelines Between 109N, 105N, 107N, 1310N, 1322N, 1926N And 36" Process Drain to Outfall, Interim Closed Out, CVP-2013-00001, WSRF No. 2013-048, Transmittal Letter dated October 9, 2013 (CCN 172912).

100-N-66, 105-N/109-N Reactor Building Complex.

100-N-84:1, 100-N Area Raw Water Pipelines, No Action, RSVP-2010-019, WSRF No. 2010-019, Transmittal Letter dated December 12, 2012 (CCN 169002).

100-N-84:2, 100-N Area Fuel and Foam Pipelines, Interim Closed Out, RSVP-2014-088, WSRF No. 2014-088, Transmittal Letter dated September 3, 2014 (CCN 176946).

100-N-84:3, 100-N Area Filtered and Potable Water Pipelines, No Action, RSVP-2010-020, WSRF No. 2010-020, Transmittal Letter dated November 14, 2012 (CCN 168594).

100-N-84:4, 100-N Area Steam and Condensate Pipelines, Accepted.

100-N-84:5, 100-N Area Sanitary Pipelines, Accepted.

100-N-84:6, 100-N Area Chemical and Process Sewer Pipelines, Accepted.

100-N-84:7, 100-N Area Unidentified and Other Miscellaneous Pipelines, No Action, RSVP-2011-092, WSRF No. 2011-092, Transmittal Letter dated May 30, 2012 (CCN 165808).

100-N-84:8, 100-N Area Unidentified Pipelines within Planned Excavations, No Action, WSRF No. 2014-002, Transmittal Letter dated April 10, 2014 (CCN 175521).

100-N-84:9, 100-N Area Active Raw Water Pipelines, No Action, RSVP-2010-019, WSRF No. 2012-012, Transmittal Letter dated December 12, 2012 (CCN 169002).

100-N-85, 1716-N Gas Station Fuel Tanks, Accepted.

100-N-102:2, 100-N Potentially Contaminated French Drains and Drain Lines, Group 2, 100-N Potentially Contaminated French Drains, Group 2, No Action, WSRF No. 2012-001, Transmittal Letter dated June 26, 2012 (CCN 166346).

Determination Number SDF-100N-040

100-N-103:1, 100-N Steam Condensate French Drains (inactive), No Action, RSVP-2011-114, WSRF No. 2011-114, Transmittal Letter dated July 30, 2012 (CCN 166823). 100-N-106, Shallow Petroleum-Only Releases, Accepted. 120-N-4, 1310-N Hazardous Waste Storage Area, 1310-N Waste Oil Storage Pad, 1310-N Non-Hazardous Waste Pad, 1524-N, Interim Closed Out, RSVP-2014-024, WSRF No. 2014-024, Transmittal Letter dated June 12, 2014 (CCN 176293). UPR-100-N-6, 1 1/2 Inch Chemical Decontam. Waste Drain Line Leaks, UN-100-N-6, UN-116-N-6, Chemical Decontamination Waste Drain Line Leak, Interim Closed Out, RSVP-2012-081, WSRF No. 2012-081, Transmittal Letter dated January 21, 2013 (CCN 169517). UPR-100-N-38, 116-N-2 Facility Liquid Unplanned Release, 100-N Spring 1983 Caustic, Truck Spill 116-N-2, Rejected, WSRF No. 2000-094. Other: Buildings within or near AOC Area 9 include the 105-N Reactor Building and Fuel Storage Basin, 105-NB Maintenance Shop Addition, Mobile Office 1100-N, 11-N Change Room, 13-N Storage Building, 1112-N Guardhouse, 1112-NA Microwave Tower, 1112-NB Badgehouse, 1524-N Hazardous Waste Storage Pad, 1525-N Laydown Storage Area, 1614-N Environmental Monitoring Station, 166-N Fuel Oil Storage Pumphouse, 1706-N Storage Building, 1712-N Maintenance Shop, 1714-N Warehouse, 1714-NA/NB Tool Storage Shed, 1715-N Diesel Oil Storage Tanks, 1716-N Gas Station Pumps, 1724-N Nitrogen Electrical Control Structure, 1734-N Gas Bottle Storage Area, 184-ND Fuel/Diesel Oil Day Tanks and 1904-NC Sanitary Sewer Lift Station No. 3. Wells within 10 feet from AOC Area 8 that haven't been decomissioned include wells 199-N-16, 199-N-57 and 199-N-87. C. INFORMATION SOURCES Available information (list document number for each if applicable): Historical Site Assessment: N/A Site Walkdown: See Attachment 3 IH Characterization Report: N/A Radiological Survey: See Attachment 4 IHC/FHC Document: N/A WIDS/SIS: See Section B above. PDSR: N/A Facility Inspection: Visual Inspection (Attachment 3) Waste Characterization Checklist: N/A Summary Report: N/A Other: D. HAZARDOUS SUBSTANCES Check all that apply: None Asbestos containing material Lead PCBs/PCB Articles Oils/Greases ☐ Chemicals List: ☐ Radiological Contamination ☐ Mercury/Mercury Devices Other: References/Comments: Liquids: Yes ⊠ No

Determination Number SDF-100N-040

	IVI	SDF-1	00N-040
If yes, describe source and nature of liquids:	UMIN SAN		
Were the hazardous substances removed from the facility prior to demolition? As verified by what documentation: The AOC is not a facility. Surrounding facilities have their own FSCFs.	Yes 🛛	No	
Was there potential for hazardous substances to be introduced into the soils during facility operations or demolition?	☐ Yes	⊠ No	□ N/A
References/Comments: Visual inspection performed (Attachment 3) confirming no staining or other anomalous	conditions	observed	
List any hazardous materials left in the building for demolition: N/A		<u>*</u>	
Does review of historical records and process knowledge indicate a potential for radio to be present in the facility? No	ological or c	hemical co	ontamination
Comments:		100 per 100	
E. FIELD OBSERVATIONS			
Visual Inspection			
Were any stained soils/anomalies discovered during or after demolition of the facility? References/Comments:	Yes	⊠ No	
Were samples taken of the stained soils/anomalies?	☐ Yes	☐ No	⊠ N/A
References/Comments:			*****
Do results of the samples indicate that chemical contamination exists? References/Comments:	☐ Yes	☐ No	⊠ N/A
Is the area potentially a discovery site?	☐ Yes	⊠ No	
References/Comments:			
Radiological Surveys			
Did radiological surveys (GPERS or equivalent) identify contamination?	☐ Yes	⊠ No	
References/Comments: Radiological surveys of AOC Area 9 for beta and gamma contamination using GPERS greater than 1.5 x background except where residual deep zone contamination was lef RSVP/CVP. A composite diagram of the survey is presented in Attachment 4.	identified n	o contami	nation se respective
Were samples taken of the radiologically contaminated soils?	☐ Yes	☐ No	⊠ N/A
References/Comments:		2)	
Is the area potentially a discovery site?	☐ Yes	⊠ No	
References/Comments:			

100-N ANCILLARY FACILITIES REMOVAL ACTION

Determination Number

SAMPLING DETERMINATIO	N FORM	SDF-100N-040
Were the contaminated materials removed?		□ No □ N/A
References/Comments: Any radiologically contaminated soil discovered was removed with the wast contamination was left as documented in the respective RSVP/CVP.	e site excavation unless	residual deep zone
F. WIDS SITES		
Were there any WIDS sites affected by D4 activities? ☐ Yes ☒ No		
If yes, list the WIDS sites:		
Were the WIDS site(s) completely removed? ☐ Yes ☒ No		
References/Comments: Waste site 100-N-106 is being evaluated in the final ROD for the 100-N Are contamination) is being characterized in FY15 and if contamination above readdressed in the final ROD for the 100-N Area. The remaining WIDS sites remediated and are either interim closed out or are in the process of being or	emedial action goals is on the vicinity of AOC Ar	discovered, it will be
Will the Ancillary Facility Footprint be deferred to FR to be closed out with	a co-located Waste Site	? ☐ Yes ⊠ No
References/Comments:		
G. COPCs FOR SOILS AND STRUCTURES REMAINING AFTER DEMO	LITION	
What are the potential contaminants of concern for the remaining below-gr	ade soil?	
☑ None ☐ SVOC ☐ VOC ☐ Metals ☐ TPH ☐ F	Rad PCBs	
Other (Specify):		
Comments:		
Summary of in-process soil sampling requirements: N/A		
Constituents detected / concentrations / rationale N/A		
Sample Collection Summary N/A	_	
H. NOTES / ADDITIONAL INFORMATION		
Check here if additional information / data / maps / sketches are attached	to this form.	
If checked, list the attachment(s): Attachment 1. Photographs or AOC Area 9 Attachment 2. WIDS sites and wells around AOC Area 9 Attachment 3. Visual Inspection of 100-N AOC Area 9 Attachment 4. Global Positioning Environmental Radiological Surveyor (GP	ERS) survey of AOC Ar	ea 9
I. SAMPLING		
Are soil samples required to demonstrate that remaining structure or below soils meet cleanup standards?	-grade	⊠ No

Determination Number SDF-100N-040

Based on the above information it was demonstrate that cleanup criteria have	determined that sampling: will been met.	will not be required in order to
The individual below acknowledges that provide to the Department of Energy (D information that could alter the sampling	OE) and the Washington State Departm	npleted. He or she also commits to nent of Ecology (Ecology) any available
Information Reviewer Signature	Printed Name Dan Saueressig	Date 9/15/14
The regulatory representative below agr and supports implementation of that dec DOE Signature	rees with the decision outlined in section cision based on the information currently Printed Name	n I of this form for the indicated facility y available.
	Rudy Guercia	54.0
Ecology Signature	Printed Name	Date

Photographs of AOC Area 9

Photo 1. Location of AOC Area 9 Respective to Other Structures at 100-N

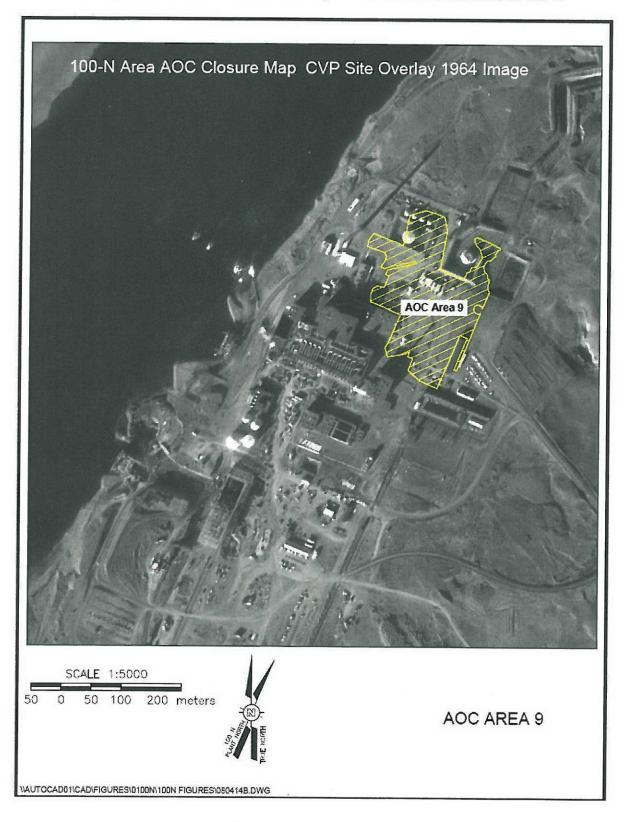


Photo 2. AOC Area 9 at 100-N

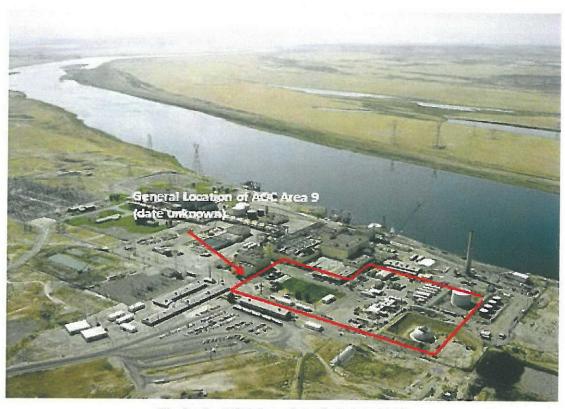


Photo 3. AOC Area 9 in October 2006

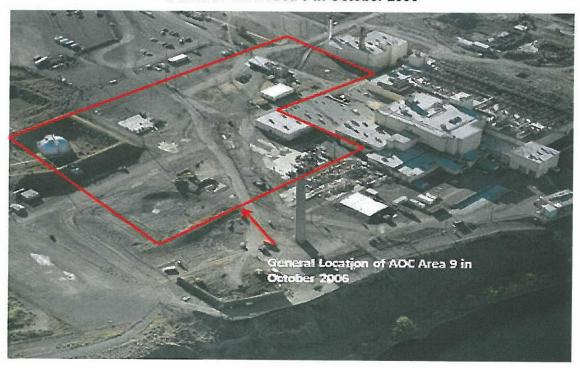


Photo 4. AOC Area 9 in April 2008



Photo 5. AOC Area 9 in March 2011

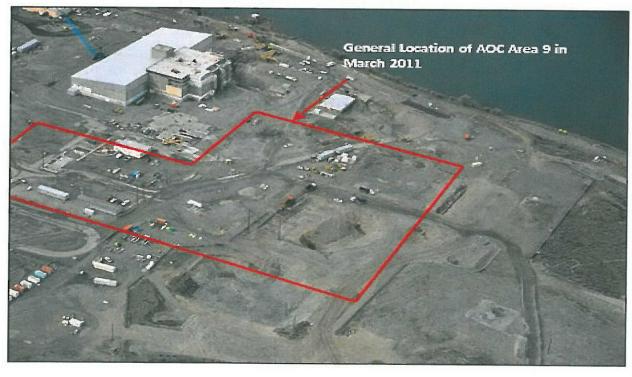
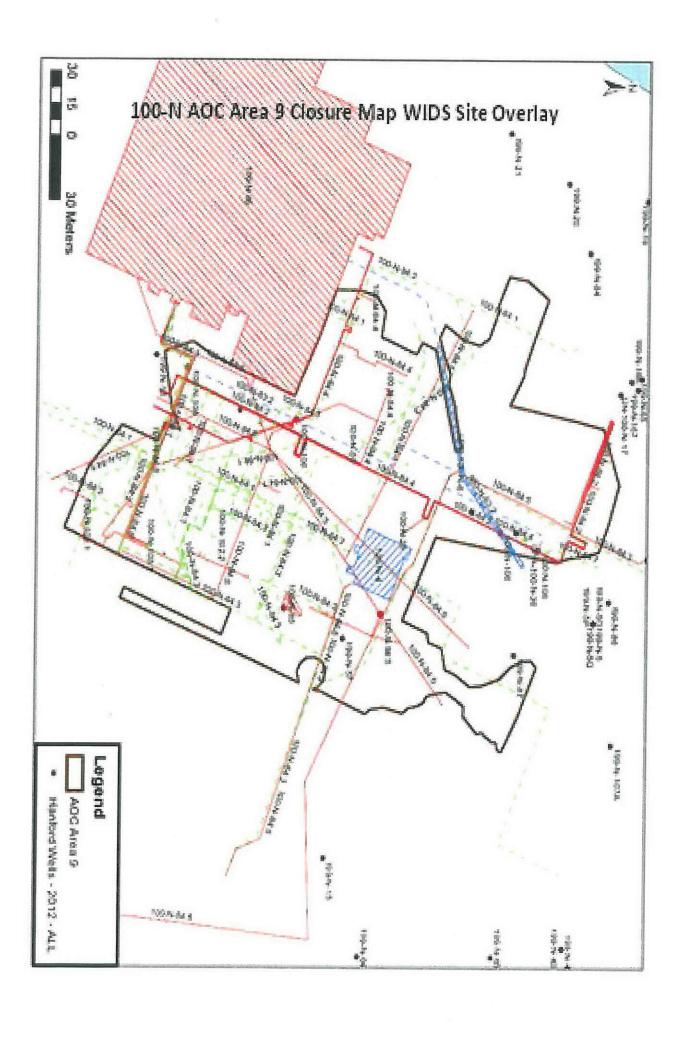
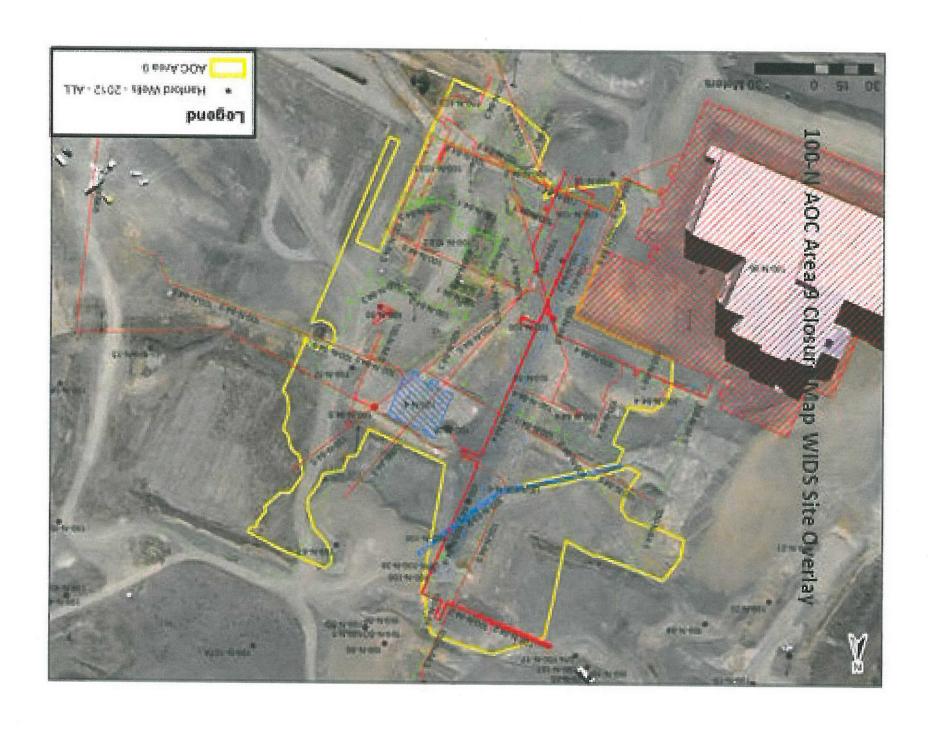


Photo 6. AOC Area 9 in July 2014



WIDS Sites and Wells Around AOC Area 9





Visual Inspection of 100-N AOC Area 9

^WCH Document Control

From:

Saueressig, Daniel G

Sent:

Thursday, August 07, 2014 6:26 AM

To:

^WCH Document Control

Subject:

FW: VISUAL INSPECTION OF 100-N AOC AREA 9

Attachments:

Visual Inspection Photographs Area 9.doc; 080414b-Layout1.pdf

Hello Ladies. Can you chron this email (and print and include the color photos), this email documents my visual inspection of the 100-N AOC Area 9. Please send me the chron number too and thanks!

Thanks,

Dam Saueressig FR Environmental Project Lead Washington Closure Hanford 521-5326

From: Saueressig, Daniel G

Sent: Wednesday, August 06, 2014 1:45 PM

To: Allen, Mark E

Subject: VISUAL INSPECTION OF 100-N AOC AREA 9

Mark, I went out to 100-N on June 24, 2014 and inspected AOC Area 9 and took photographs (attached). I didn't see any stains or anomalies, the area looked good. Area 9 is a large area (I also included an aerial photograph with Area 9 overlaid), that's why there are so many photographs. Give me a call if you have any questions.

Thanks,

Dan Saueressig FR Environmental Project Lead Washington Closure Hanford 521-5328



Visual Inspection Photographs ...



Photo 1. Northern Portion of AOC Area 9 (facing south)



Photo 2. Northern Portion of AOC Area 9 (facing east)



Photo 3. Eastern Portion of AOC Area 9 (facing southwest)



Photo 4. Eastern Portion of AOC Area 9 (facing south)

White Red Splitters - Global
Psor D4 100W 0000

Photo 5. Eastern Portion of AOC Area 9 (facing south)



Photo 6. Eastern Portion of AOC Area 9 (facing west)



Photo 7. Eastern Portion of AOC Area 9 (facing north)

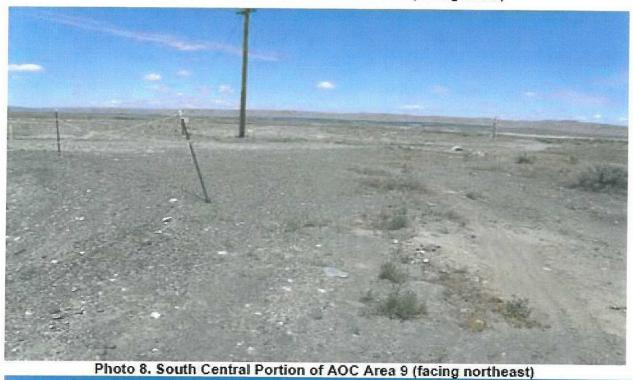


Photo 9. Central Portion of AOC Area 9 (facing east)



Photo 10, Central Portion of AOC Area 9 (facing northwest)



Photo 11. Southeastern Portion of AOC Area 9 (facing south)

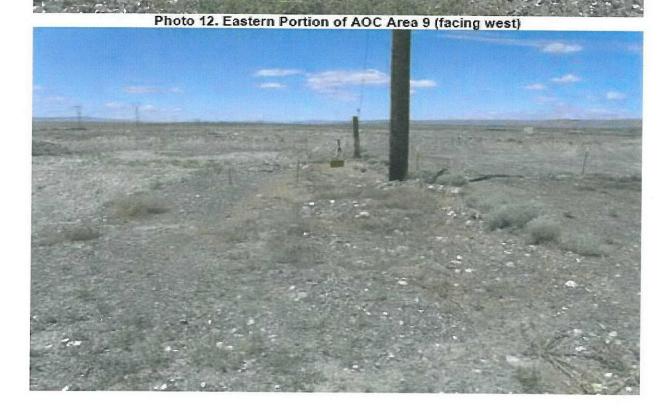


Photo 13. Eastern Portion of AOC Area 9 (facing south)



Photo 14. Eastern Portion of AOC Area 9 (facing south)



Photo 15. Eastern Portion of AOC Area 9 (facing northwest)



Photo 16. Southeastern Corner of AOC Area 9 (facing west)



Photo 17. South Central Portion of AOC Area 9 (facing west)





Photo 19. Southwestern Portion of AOC Area 9 (facing north)



Photo 20. North Central Portion of AOC Area 9 (facing west)





Global Positioning Environmental Radiological Surveyor (GPERS) Survey of AOC Area 9

